## CLAIM AMENDMENTS

## Claims 1-19. (canceled)

- (Currently Amended) An apparatus for downhole 1 2 drilling of wells comprising: 3 a drilling unit comprising a drill bit for penetrating into a rock formation to form a borehole therein reaching from a 4 surface to a downhole location, 5 a motor arranged to drive the drill bit; 6 a tubing upon which the motor and the drilling unit are 8 suspended; 9 and 10 Pumping means an electric pump disposed downhole for drawing a drilling fluid from an annulus between the tubing and an 11 12 inner surface of the borehole, and up through a bore of the 13 tubing.
- 21. (Previously presented) An apparatus according to 2 claim 20 wherein the motor is an electric motor, and a cable means 3 is disposed along the tubing for energizing said motor.

## Claims 22 and 23 (Cancelled)

- 1 24. (Currently amended) An apparatus according to claim
- 2 20 wherein the pumping means includes comprising at least two pumps
- 3 disposed downhole at different locations on the tubing.
- 1 25. (Currently amended) An apparatus according to claim
- 2 22 wherein the pumping means includes a pump is disposed in the
- 3 annulus upon the outer surface of the tubing.
- 1 26. (Currently amended) An apparatus according to claim
- 2 22 wherein the pumping means includes a pump is disposed in the
- 3 bore of the tubing.
- 1 27. (Previously presented) An apparatus according to
- 2 claim 20, further comprising motor and drill bit monitoring sensors
- 3 which monitor action of the motor and the drill bit.
- 1 28. (Previously presented) An apparatus according to
- 2 claim 20, further comprising directional sensors which monitor
- 3 position of the drill bit.

- (Currently amended ) An apparatus for downhole 1 29. 2 drilling of wells comprising: a drilling unit comprising a drill bit for penetrating 3 into a rock formation to form a borehole therein reaching from a 4 surface to a downhole location; 5 a motor arranged to drive the drill bit; 6 a tubing upon which the motor and the drilling unit are 7 suspended; 8 and pumping means for causing the drilling fluid to flow down 9 10 through a bore of the tubing, and up through an annulus between the tubing and an inner surface of the borehole, 11 12 the pumping means including a pump disposed downhole.
- 30. (Previously presented) An apparatus according to claim 29 wherein the motor is an electric motor, and a cable means is disposed along the tubing for energizing said motor.
- 31. (Previously presented) An apparatus according to
  claim 29 wherein the pumping means is an electric pump, and a cable
  means is disposed along the tubing for energizing said motor.
- 32. (Previously presented) An apparatus according to claim 29 wherein the pumping means includes a pump disposed in the annulus upon an outer surface of the tubing.

- 33. (Previously presented) An apparatus according to claim 29 wherein the pumping means includes a pump disposed in the
- 3 bore of the tubing.
- 1 34. (Previously presented) An apparatus according to
- 2 claim 29, further comprising motor and drill bit monitoring sensors
- 3 which monitor action of the motor and drill bit.
- 1 35. (Previously presented) An apparatus according to
- 2 claim 29, further comprising including directional sensors which
- 3 monitor a position of the drill bill.
- 36. (Currently amended) A method a downhole drilling
- 2 of wells comprising:
- 3 advancing a drill bit disposed on a tubing into a bore-
- 4 hole, the tubing having an inner flowpath, there being an annulus
- 5 between the tubing and the borehole, the inner flowpath and annulus
- 6 providing a circulation path from a top of the borehole to the
- 7 drill bit and back to the top of the borehole,
- 8 driving the drill bit using a motor disposed upon the
- 9 tubing,
- 10 supplying the drill bit with drilling fluid through the
- 11 circulation path, and

- causing said drilling fluid to flow down the annulus and
  then up the tubing using pump means <u>including at least one electric</u>
  pump located downhole on the tubing.
- 1 37. (Previously presented) A method according to claim 2 36 wherein the pump means includes a pump disposed in the annulus.
- 38. (Previously presented) A method according to claim
  2 36 wherein the pump means includes a pump disposed in the bore of
  3 the tubing.
- 39. (Currently amended) A method according to claim 36
  wherein the pump means is an electric pump, and a cable means is
  disposed along the tubing for energizing said pump.
- 1 40. (Previously presented) A method according to claim 2 36 wherein the pump means includes at least two pumps disposed 3 downhole at different locations on the tubing.
- 1 41. (Previously presented) A method according to claim 2 36 wherein the motor is an electric motor, and a cable means is 3 disposed along the tubing for energizing said motor.

- 1 42. (Previously presented) The method according to
- 2 claim 36 wherein motor and drill bit monitoring sensors monitor
- 3 action of the motor and drill bit.
- 1 43. (Previously presented) The method according to
- 2 claim 36 wherein directional sensors monitor the position of the
- 3 drill bit.
- 1 44. (Currently amended) An apparatus for downhole
- 2 drilling of wells comprising:
- 3 a drilling unit comprising a drill bit for penetrating
- 4 into a rock formation disposed on tubing to form a borehole in the
- 5 rock formation,
- 6 a motor arranged to drive the drill bit,
- 7 thruster means disposed upon the tubing and which engage
- 8 with an inner surface of the borehole to urge the tubing downwards,
- 9 [[and]]
- 10 a cable means disposed along the tubing for energizing
- 11 said thruster means, and
- 12 pump means including at least one electric pump located
- downhole along said tubing for circulating fluid down an annulus
- between the tubing and the borehole.
- 1 45. (Previously presented) An apparatus according to
- 2 claim 44 wherein the thruster means include at least two thruster
- 3 units disposed downhole at different locations on the tubing.

1	46. (Currently amended) An apparatus for downhole
2	drilling of wells comprising:
3	a drilling unit comprising a drill bit for penetrating
4	into a rock formation, disposed on tubing to form a borehole in the
5	rock formation,
6	a motor arranged to drive the drill bit,
7	pumping means including an electric pump located downhole
8	on said tubing that causes the drilling fluid to flow from an
9	annulus between the tubing and inner surface of the bore hole, and
10	up through a bore of the tubing,
11	formation sensors for determining characteristics of the
12	formation environment disposed upon the tubing, and
13	a cable means disposed along the tubing for energizing
14	said formation sensors.